

### **ABSTRACT**

A method and apparatus for verifying program code conversion performed by an emulator. A first emulator configured in a same-to-same (X-X) mode converts subject code into target code for execution by a subject processor. Execution of the subject code natively by the subject processor is compared against execution through the first emulator, to verify that program code conversion. Optionally, the first emulator is then used to incrementally validate program code conversion (i.e. optimisation and/or translation) performed by a second emulator, such as a this-to-that (X-Y) mode emulator running on a target processor.